



# Excel Magnetics®

*Magnetic & Vibrating Equipments*

*Indian Largest Quality &  
Service Provider Company*





LEADING AND RENOWNED  
IN MANUFACTURING OF  
MAGNETIC AND VIBRATING  
PRODUCTS.



# ABOUT US



Excel magnetics is one of the leading and renowned in manufacturing of magnets and magnetic products. Since its inception, Excel Magnetics has taken strides in manufacturing of permanent magnetic equipment, electromagnetic equipments and all type of magnetic vibrating appliances. Excel Magnetics is an ISO 9001 : 2015 Certified Company. We have has tons of experience in this industry which results in the functionality, product development and services of our Company. Our products are of top notch quality and we always look forward to meet customer requirement.

We are capable of manufacturing various magnetis equipments & vibrating equipments based on the requirement of the clients. We are having a group of skilled working for the timely accomplishment of projects undertaken without compromising on the quality. Our magnetic equipments have been successfully used in various industries.

Excel Magnetics has been able to develop an impeccable reputation in Gujarat owing to its policy of manufacturing under strictest international quality norms to give products that offer trouble free and user friendly operations and at the same time are economical and highly productive.

## Product Range

- Magnets
- Magnetic Equipments
- Electro Magnetic Equipments
- Vibrating Equipments

## Infrastructure

Established in the industrial hub of Ahmedabad, the company stands equipped with the most refined men and machines to deliver the best of technology and performance in the products. Our state of the art technology and machinery With highly competent manpower have helped us to maintain top notch quality at all levels.

Our products are designed, engineered, and tested with high precision in-house, under the supervision of highly competent people. Not just machinery parts, we are also open to provide you with total technical help and assistance to provide you with complets technical know-how for incorporating the products.



In order to serve the increased market demand for magnetic and vibratory equipments, Excel Magnetic has created a portfolio of technologies aimed at generating 100% yield and 100% e.e. TM concepts challenges in an integrated manner, with combination of proprietary technologies and in house engineering expertise. For you, as our customer, this means that whatever the challenge, Excel magnetic can provide you with most economic and best solution.

### **BEST QUALITY PRODUCTS**

Excel Magnetic prides itself on the quality of its products, which gives the company an important competitive edge. The company's offerings comply with the strict regulatory requirements of our clients.

### **TOP QUALITY SERVICE**

At Excel Magnetic we know that in today's complex and sensitive Industry, total reliability is of the essence. That's why we strive to ensure our customers peace of mind in every way. Specializing in Tailor-made products and complete turnkey offering, we offer customers a close, long-term partnership, and a fast, full response to every request. Propelled by team of experts and qualified engineers, the company offers wide range of high tech Magnetic Separator and vibratory Equipments.

### **STATE-OF-THE-ART TECHNOLOGY**

Excel magnetic modern R&D facilities are equipped with advanced Instrumentation, equipments. With the team equipments in place we are constantly offering new and unique technologies - for customers who seek diverse line of high-tech Magnetic Separator & Vibrating Equipments.

Our Computer Aided Design (CAD) Team is equipped with the Most advanced technology to design machinery equipment. Each prototype of machine is designed Keeping its work efficiency in mind. We are continuously upgrading ourselves with the latest developments in the field of machines and their utility.



Having many successful satisfied Customers, we are proud of our reputating as a leading manufacturer of magnetic and vibratory equipments in the industry.

Our unmatched commitment to customer service, a deep understanding of our customers needs and the launch of innovative products remain unparalleled in magnetic. and vibratory equipments industry.

We have an experienced and skilled professional team who is always available to our customers for fast and competent response to every need. We are the only magnetic & vibrating equipment manufacture to offer these unique services.

we are committed to provide highly reliable and long term customer service. We offer various customized services. which are mentioned below :

- 24x7 round-the-clock service.
- Dedicated and decentralized after-sales service.
- Spare parts and customer support.
- Annual maintenance contracts.
- Customer training.

We add MORE VALUE to your business.

We serve our customers ON TIME, EVERYTIME.

With our complete and customized solution, OUR CUSTOMERS have MORE TIME to look after their CORE BUSINESS.

## Our Business

### MANAGEMENT AND FAST CUSTOMER - FOCUSED RESPONSE

Excel Magnetic is rapidly growing enterprise. Coupling advanced R&D capability with experience and bussiness know how has helped us respond favorable to all challenges. The company's basic offering comprises of quality machinery that comply with our customer's exact needs.

we always follow an innovative and well charted approach to problem solving, a combination of creativity, application timeliness. we believe in taking the right initiative and responding to new opportunities. Above all it is our experience helps us to focus on advancement - for the benefit of our present and future customers. Your submitted machinery needs are sent to our engineering division to identify technical and output issues to determine the appropriate fit with capabilities. The Approved project is assigned to our dedicated production engineers who are committed to meet your requirement in quality and costs.

### EXCEL MAGNETICS ONLINE CONTACTS FOR INQUIRIES

A Standard practice is to keep clear and open communications with our customers for 100% satisfaction. Even after project Completion we remain accessible to you. we offer an easy-to-fill-out form at our offices as well as our website. Please visit us at [www.excelmagnetics.com](http://www.excelmagnetics.com) to submit your queries and inquiries - we promise you a quick response.

## Our Other Products



Nafed Magnet . . . . .	7	Magnetic Rod . . . . .	25
Ferrite Magnet . . . . .	8	Channel Magnet . . . . .	26
Magnetic De-Stoner . . . . .	9	Rotary Type Magnetic Separator .	27
Magnetic Roll Separator . . . . .	10	Concentor Magnetic Separator .	28
Combo Megnetic Separator . . . .	11	Coolant Magnetic Separators . .	29
Drum Magnetic Separator . . . . .	12	Wet Drum Magnetic Separator . .	30
Drum Magnet . . . . .	13	Magnetic Floor Sweeper . . . . .	31
Inline Drum Magnetic Separator .	14	Lifter Magnet . . . . .	32
Grill Magnet . . . . .	15	Eddy Current Magnetic Separator .	33
Drawer Magnet . . . . .	16	Auto Iron Remover . . . . .	34
Suspension Magnet . . . . .	17	Metal Detector . . . . .	35
Over Band Magnetic Separator .	18	Electromagnetic Scrap Lifters . . .	36
Plate Magnet . . . . .	19	Rectangular Vibrating Screen . .	37
Hump Magnet . . . . .	20	Cricular Gyro Vibrating Screen . .	38
Bullet Magnet . . . . .	21	Machanical Vibratory Feeder . . . .	39
Pipe Line Magnetic Separator .	22	Electro Magnetic Vibro Feeder . . .	40
Magnetic Pulley . . . . .	23	Dewatering Vibrating Screen . . .	41
Magnetic Sorting Belt . . . . .	24	Our Other Products . . . . .	42



The Earth itself is one enormous magnet and ancient Mariners used this Very Property to Chart their Voyages across the High Seas in Search of New Lands And Continents.

Rare Earth Magnets are the Most sturdy type of Magnets Available at present. These magnets are Manufactures by us using several rare earth elements. Owing to the brittle nature of these magnets, we properly coat them with nickel to provide extra firmness. These Magnets are widely used in computer hard drives, fishing reel brakes, audio speakers, bicycle dyanamos, and so. we Produce two primary varieties of are earth magnets, i.e., Neodymium and samarium-cobalt. Our of these, neodymium type rare earth magnet is comparatively cheaper. Samarium Variety of rare earth magnet is a Little expensive due to their complex Manufacturing process and Their Special quality to withstand high temperatures

The noted Feature of our alnico magnets are their excellent temperature stability and their high residual induction. The materials used for the fabrication of these Magnets are aluminum are aluminum, Cobalt, nicket, Copper, iron, etc. The primary processes employed by us for manufacturing the alnico magnets includ and casting and sintering. The casting process gives the flexibility of molding the magnet into various shapes, of which horseshoe is a common shape, while the sintered alnico magnets offer comparativley better mechanical properties. Our alnico magnets commonly found their application in rotating machinery, sensing devices, meters, etc.



Magnetic ferrites such as  $\text{Fe}_3\text{O}_4$  and  $\text{Fe}_2\text{O}_3$  are extensively used in a range of applications because they are inexpensive and chemically stable. Here we show that rhodium-substituted  $\epsilon\text{-Fe}_2\text{O}_3$ ,  $\epsilon\text{-Rh}_x\text{Fe}_{2-x}\text{O}_3$  nanomagnets prepared by a nanoscale chemical synthesis using mesoporous silica as a template, exhibit a huge coercive field ( $H_c$ ) of 27 kOe at room temperature. Furthermore, a crystallographically oriented sample recorded an  $H_c$  value of 31 kOe, which is the largest value among metal-oxide-based magnets and is comparable to those of rare-earth magnets. In addition,  $\epsilon\text{-Rh}_x\text{Fe}_{2-x}\text{O}_3$  shows high frequency millimetre wave absorption up to 209 GHz.  $\epsilon\text{-Rh}_{0.14}\text{Fe}_{1.86}\text{O}_3$  exhibits a rotation of the polarization plane of the propagated millimetre wave at 220 GHz, which is one of the promising carrier frequencies (the window of air) for millimetre wave wireless communications.



Rare Earth Magnetic De-Stoner are extremely efficient at removing fine iron contamination and nut ball and stone from free flowing products such as food industries, sugar, grain, tea, flour, granulate and any other types of powder with a low moisture content and dry raw material.

We are riveted in manufacturing Magnetic Destoner that works as a densimetric separator of the stones from the grain. Destoners are applicable in removing a small amount of heavy contamination from rice, pulse and many other products. It refines the stock of grain. This machine saves time as it has high productivity and is easy to operate. The De Stoner is manufactured as per client requirement for handling all cereals, some species, pulses, legumes and industrial materials such as; plastics, chemicals and minerals.

De-Stoners are available upto 24000 gauss which is highest in Nd-Feb magnet grade. We are using N52 grades.

Here Magnetic Roller Dia available in 100 mm, 150 mm and 200 mm.



Magnetic Roller Separator are designed to remove micro iron or para-magnetic material from mineral and ceramic raw material.

Roller Separators are available for highest purity. The material passes through the magnet twice time from high intensity roller, excel magnetics made High intensity magnetic roller separator are design for very fine quality separation which has been used successfully in Industrial Minerals applications. The Machine incorporates high energy Rare Earth Neodymium Permanent Magnetic Roller Assembly.

#### Multi Roller Separator

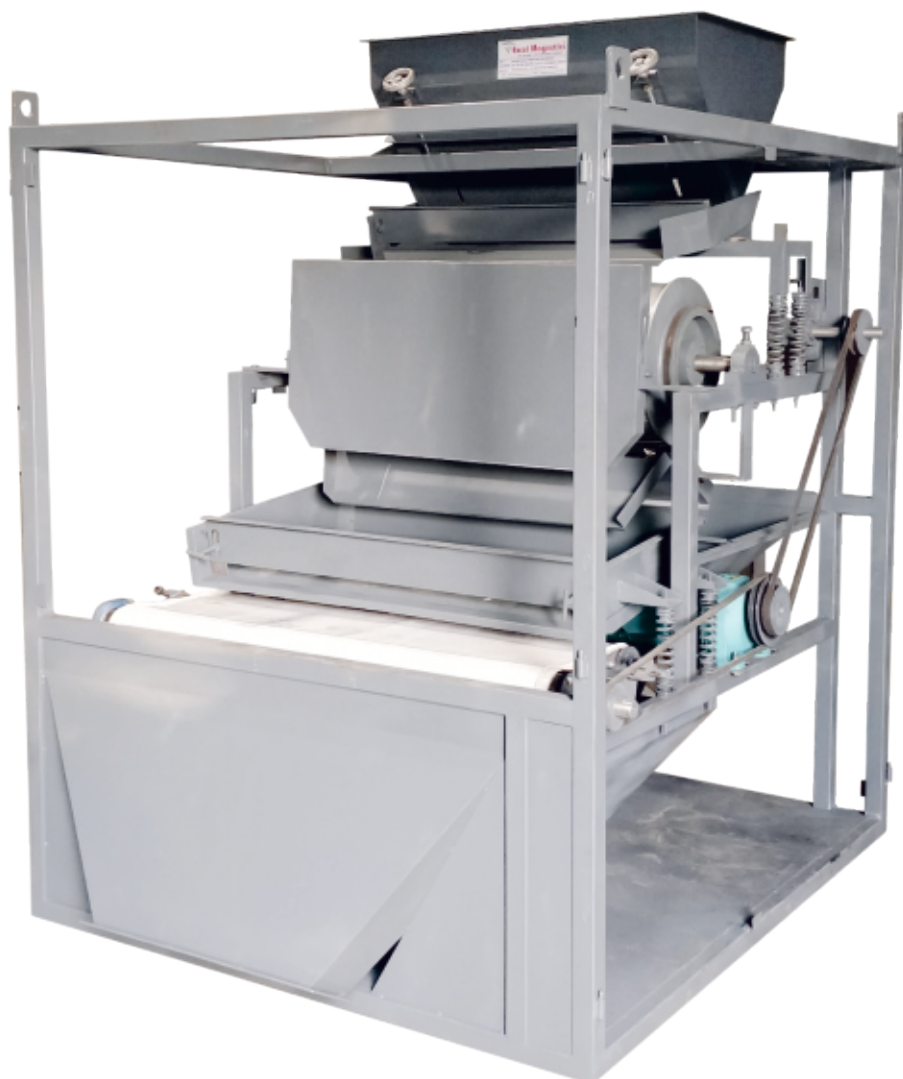
Double, Triple and Multi Roller Magnetic Separators for highest purify material passes through the magnet multi stage roller separator and provided at material outlet .the material flow in hopper then its come on vibrator. Product flow is diverted so that it falls across the surface on roller belt Ferrous matter contained in the product flow is drawn to the roll's surface (and held against it) by the powerful magnet housed inside.

Here we make totally dust tight Roller Magnetic Separator available in one to eight stage roller magnetic separator in various size. Which is manufactured and assembled under

strict quality control and specification to Generate unsurpassed Magnetic Field Gradients. Under this High Intensity Magnetic Field, weekly Magnetic Contamination can be easily removed efficiently.

Standard Magnetic Roller Dia is availble 100 mm, 150 mm and 200 mm.

## Combo Megnetic Separator



We have specially developed the unique design with the combination of the drum type magnetic separator and the roller type magnetic separator. The drum which is used in the machine is used to remove the free iron particles, heavy metal particle and the roller is used to remove the paramagnetic particles.

Our uniquely design Combo Separator have high separation efficiency and best suitable machine for any kind of the material which has the combination of magnetic and paramagnetic contamination. Machine have capacity from 0.5TPH to 7 TPH/hr.



Drum Type Magnetic Separators are used for Automatic separation of Magnetic Particles from Raw Material. Drum Type Magnetic Separators are available In many designs. Here available in Single, Double and Multi Stage Drum Separator

## Single Drum Magnetic Separator

Single Drum Type Magnetic Separators are available for in medium and high intensity magnet. The material passes through the magnet drum type Machine respectively. These are widely used for separation of iron contamination from Minerals, Chemicals, Refractories and many other products. High power permanent Magnetic Plate is provided at material outlet. Modern An-Isotropic Permanent Magnets are used having highest magnetic strength. Machines are available with vibrating material inlet Hopper and totally enclosed design to avoid dusting and pollution

## Double drum magnetic separator

Double Drum Type Magnetic Separators are available for highest purity. The material passes through the magnet twice time drum separator and High power permanent Magnetic Plate is provided at material outlet. They are comprised of a stationary permanent magnet, either standard Ferrite Magnets or High Power Rare Earth Magnets enclosed in a non-magnetic stainless-steel drum. Product flow is diverted so that it falls onto the top and flows across the surface of the drum. Ferrous matter contained in the product flow is drawn to the drum's surface by the powerful magnet housed inside. Multi Stage Drum Separators

The Permanent Drum Separators are available in standard drum diameters of 300 mm to 1200mm width range from 300 mm to 2500 mm. Other sizes can be made as special to your requirement. The larger the diameter and width of the drum the greater is the volume of material which can be hand land.



These drums are used for removing both small and large pieces of iron from material processing lines. The efficiency and effectiveness of these drums have made them highly popular in the industry. Kumar Magnet Industries is considered one of the leading Permanent Magnetic Drum Manufacturers in Ahmedabad. The powerful magnets used in these products make them suitable for a broader range of applications. Available in standard diameters of 300 mm, 400 mm and 500 mm, 600mm, 800mm and 1000 mm the drum length of these drums can vary from 300 mm to 3000 mm. It comes with a stationary permanent magnetic assembly having a uniform magnetic field across the entire width of the drum, which is functional over half the drum's circumference. Choose Our Permanent Magnetic Drum Separators For:

**Stainless Steel Construction** - The non-magnetic stainless-steel construction gives it the required durability.

**Greater Strength** - The magnetic strength of these drums is greater than the other alternatives for removing ferrous particles.

**Long-Lasting** - The magnetic force of the magnet doesn't diminish quickly and you can use it with the same effect throughout its lifetime.



Persistently marching in today's competitive market, our company is recognized as one of the well established manufacturers and exporters of Inline Separator. These find wide usage in various industries like pharmaceuticals, plastic manufacturing, minerals, glass manufacturing and food industry. The offered range of Inline Separator is well accepted in the market for its distinctive features like easy installation, low maintenance and robust construction. Our separators can be availed by our customers in different technical specifications.

### Further Details:

The drum consists of high coercivity modern anisotropic and permanent magnets. The strong and durable fabrication leads to the longevity of the investments made by the customers.

Our range is renowned and well liked in industries such as mining, material processing, domestic waste recycling plants and ceramic handling. Our range of inline drum type magnetic separator has various other features, such as

- Automatic separation of impurities from the iron.

- Designed for complete protection from dust and pollution.

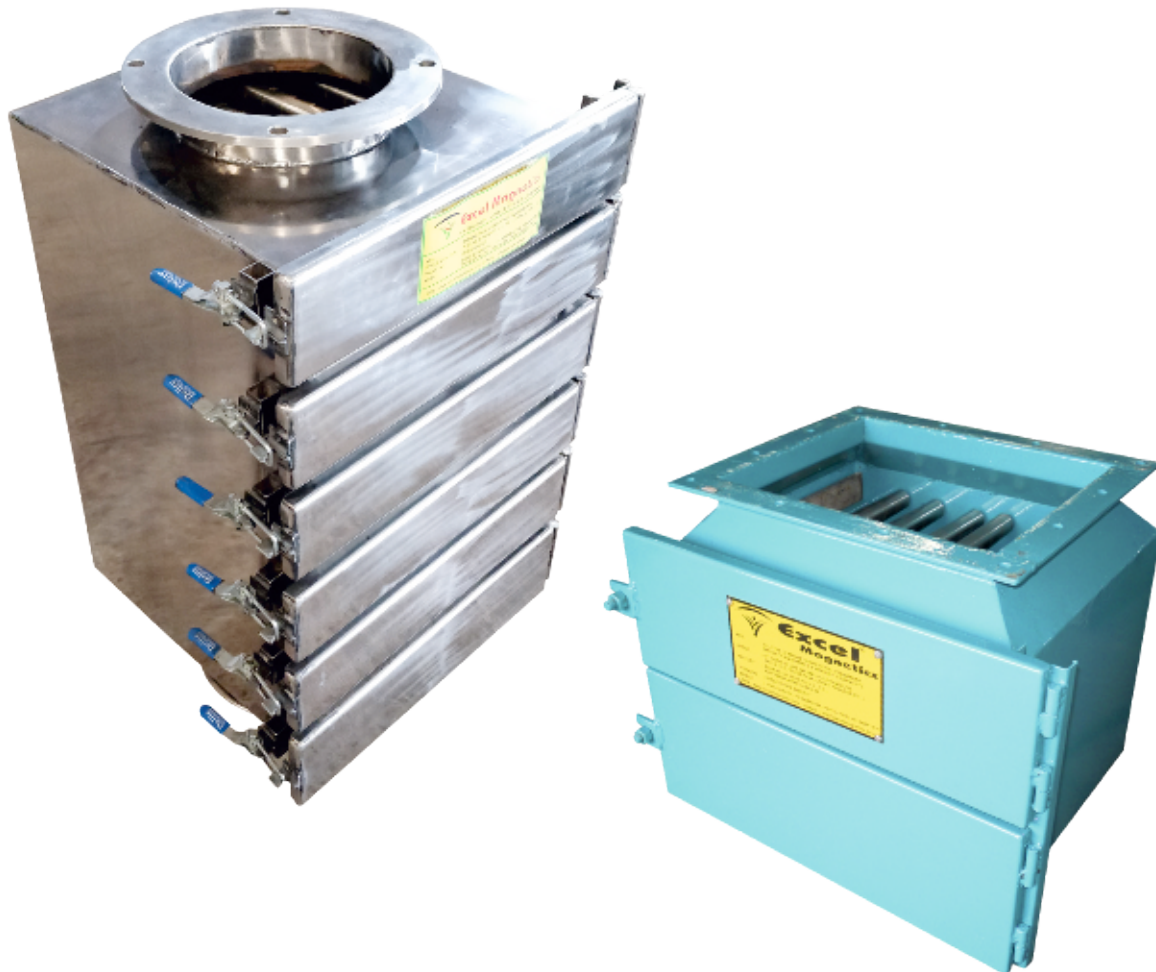
- Requires very little maintenance.

- Available in various configurations and sizes.



Grill Magnets are important magnetic separators, used for separating tramp iron or ferrous contaminants from free flowing granular materials. Our grill magnet are made of rare earth magnets or ceramic magnets. The magnetic grills are aligned in certain angles that attracts the contaminants. Available in various shapes and sizes, our grill magnets have wide applicability in various industries like chemical industries, food processing industries, mining and mineral industries plastic and ceramic industries etc.

Grill Magnets offer excellent protection from metal contamination. As product flows over the magnetic tubes, captured metal contaminants are pushed to the underside of the tube where they are now out of contact with the product flow preventing was hoff back in to the clean material.

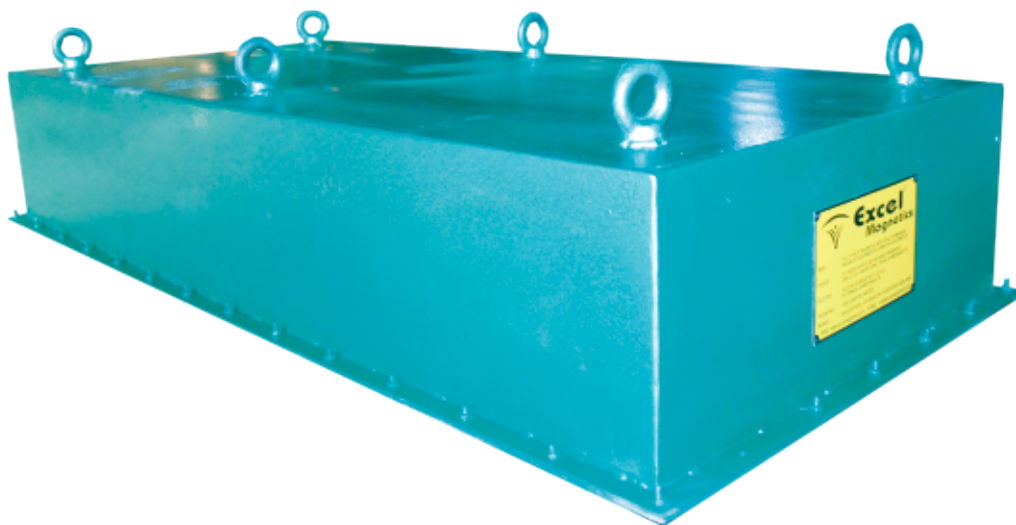


Multi Stage Open Drawer Magnets Which are available in different styles to suit specific application needs. Drawer Magnets Consist of rows of round magnetic tubes that are assembled into drawers. The tubes of the drawer magnets are aligned on alternating centers from the row directly above or below it. The powerful at the neck of the molding machine stop the flow of the tramp material directly into the machine parts. Our drawer Magnets are very essential engineering products which are used for protecting injection molding machines, Molds and dies.

Powder drawer Magnets provide excellent equipment and product production of medium and fine ferrous contaminants in dry, Free flowing products under gravity flow. Multiple staggered rows provide maximum contact area for products flow. As Product flow through the stainless steel housing, it cascades over the staggered row of magnetic tubes.

Drawer Magnets should be cleaned periodically for the most efficient performance. To clean the magnetic tubes, release the latch assembly and open the door. Remove the grate assemblies one at a time. Remove the tramp metal by hand. Use extreme caution and wear gloves during the process. Rare earth magnets are extremely powerful and tramp metal is very difficult to remove by hand.

## Suspension Magnet



This unit simply suspended above the conveyor belt or the head pulley and lifts tramp metal from the product burden as it passes through the powerful magnetic field. Four eyebolts are provided for suspension (suspension chain not included). Cleaning is achieved by manually removing the collected tramp metal from the face of the magnet. EASY CLEAN options are available to simplify cleaning. Available in permanent and electromagnetic designs.

Suspension Magnets made from Nd-Feb Rare Earth and strontium Ferrite magnets and gauss power are upto 12000 gauss.

Suspension Type Magnets use is recommended for low contamination products. Over band type Magnetic Separator is recommended for this type of application. The capacity of suspended magnet is 20 inch coverage area.

The principal applications are for processing of bulk products such as Cullets, Glass, Coffee, Ceramils, Coal, Sugarand Crushing Plants, etc.,



Over Band Magnetic Separators are designed to eliminate tramp metal from the product carried by belt, Used in Recycling, quarrying and heavy industries.

Positioned above flat or trough type conveyors to continuously removed tramp iron and other ferrous contamination from bulk items. Large permanent magnetic packs generate deep penetrating magnetic flux fields.

The Magnet is made of High Intensity Strontium Ferrite Magnets and Rare Earth magnet are guaranteed for the Magnetic Power through out the life of installation. A Non-Magnetic Stainless steel Plate is provided to cover the poles of Magnet. There is no need for any electrical supply or maintenance.

Over Band Magnetic Separatore are for online conveying system for removing iron content from raw materia. In OBMS upto 10000 gauss on rubber belt. Standard OBMS size for 600 mm, 800 mm, 1000 mm, 1500 mm, 2000 mm conveyor.

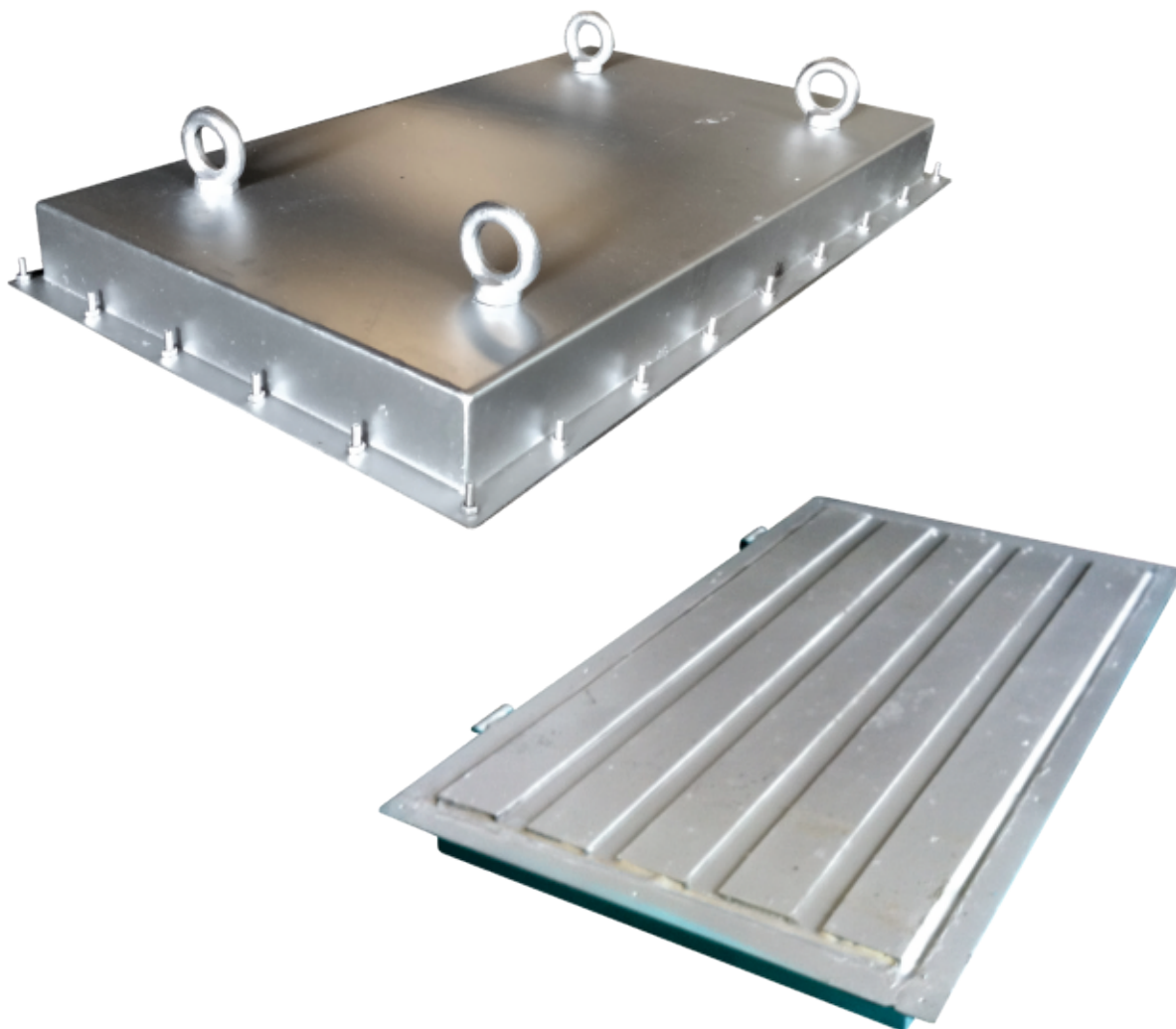


Plate Magnets are designed for use in chutes and suspension over conveyed product. Installed on the bottom side of a chute, a Plate Magnet will provide maximum protection as product travels through the powerful magnetic circuit. The magnetic field projects from the face of the Plate Magnet reaching into the product stream and pulling the ferrous contaminants to the magnet face. The magnetic field on a Plate Magnet is strongest at the surface and gets weaker the further you move away.

Permanent Magnetic Plates are designed in various sizes & strengths to meet with specific operation & plant conditions. Magnetic Plates are widely used for removing Tramp iron such as Bolts, Nuts, Bits of Wire, Nails and other casual contamination from free flowing materials to protect against occasional damage to the plant caused by bits of iron.

Plate Magnets can ideally be used to remove tramp iron from the moving material carried in chutes ducts, spouts or on conveyor belts, screens and feed trays. Whether the material is plastic or paper pulp, food or fertilizer, Oil seeds or gains the result is sure protection of processing machinery and iron free final products

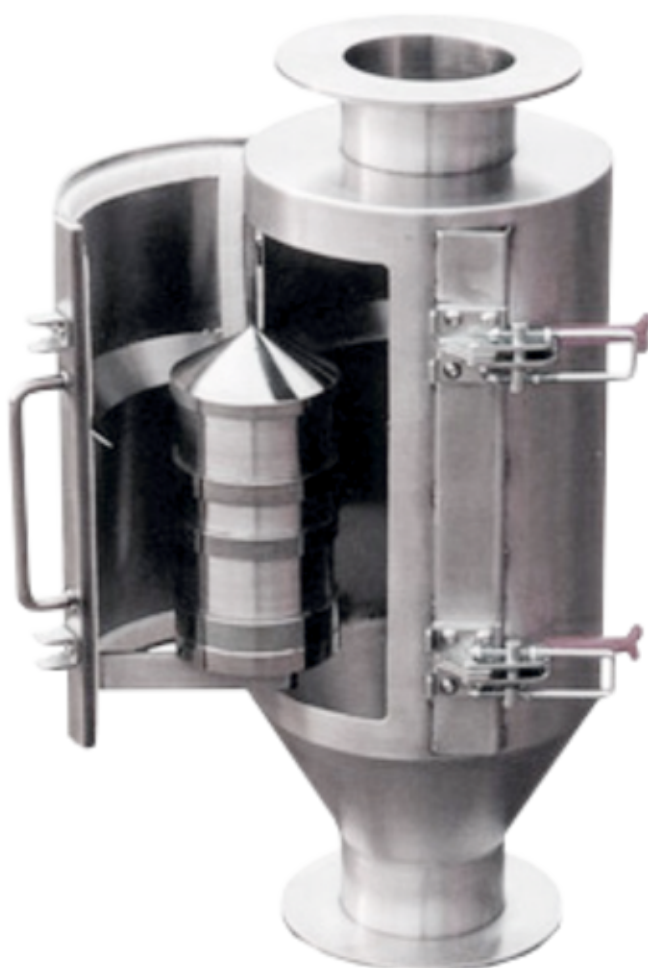


Hump Magnets generally consist of two Plate Magnets mounted in an offset housing and are installed in vertical spouts. As product enters the housing it impacts directly on the face of the first Plate Magnet, travels through the offset angle of the housing and impacts directly on the face of the second Plate Magnet. Hump magnet is a unique permanent magnetic equipment to remove tramp iron pieces from gravity flow or pneumatically conveyed mixtures, the surest way to protect your costly machinery from damages. A must for cattle feed fertilizers food processing, salt in grain handling plants.

Made from high coercivity permanent magnets. Very powerful magnetic plates hinged on sturdy, M. S. Housing arrest all the ferrous particles from the material and prevent damage to the machinery. The plates can be easily swung open and cleaned.

Ousting made of heavy M. S. A Hump Magnets are made totally dust tight enclosure and easy to clean plate of Hump, in a Hump Magnet made two or multi stage are available.

This provides excellent separation results for high volume, poor flowing, or abrasive materials.



Bullet magnetic separator is designed for installation in pipelines or ducted systems, to trap the ferrous particles from the powder, grain material flows over the magnetic. Open the door to remove the ferrous particles on the surface of the magnetic core.

Magnetic Bullets are typically into pipelines and gravity feed chutes. Ferrite or neodymium magnets are used, depending on the magnetic strength required. These magnets are super cost efficient and ideal for extracting iron particles, nuts, bolts and other ferrous contaminants.

Centra flow magnets are generally used where flowing material characteristics is sticky, not free flowing material. It is easy cleaning type of system having conical magnet fitted on hinged door. It can withstand high preparation efficiency of the system.

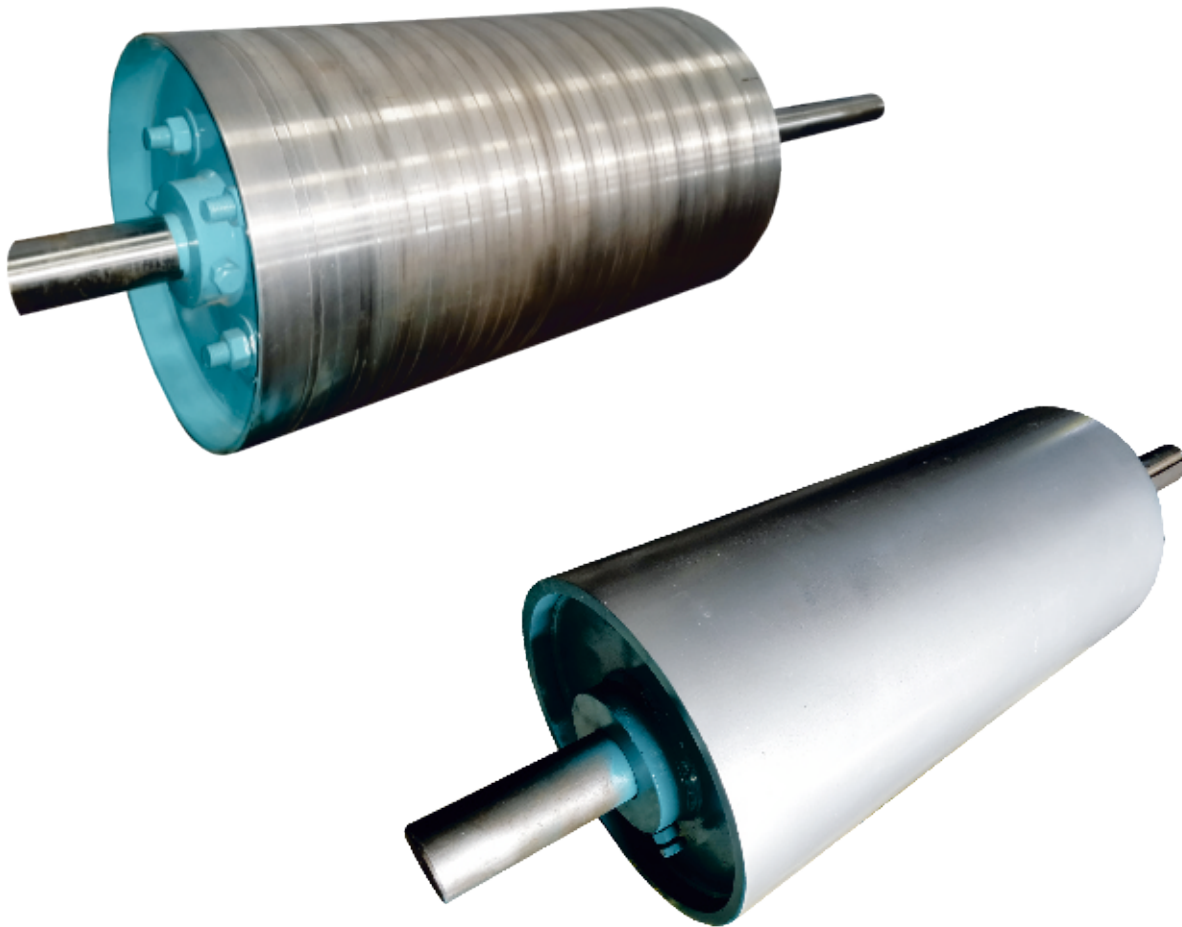
They can be installed in pipes up to 500mm in diameter, and our engineers will visit your plant to recommend the correct bullet application



Magnetic Liquid Filters are Designed to remove micron size ferrous and para-magnetic contamination from various types of liquids. A matrix of Easy clean rods containing high intensity rare earth neodymium iron boron magnets are housed within a stainless steel vessel.

The magnetic configuration Ensures maximum exposure of contamination to the high intensity rods without impeding liquid flow.

Filters are available in two versions, single wall and double wall jacketed filters are used in heated pipeline applications where temperature is critical to the product viscosity, for example, chocolate, syrups, jams and sauces. Both these versions are tested and certified to operate at pressures up to 12 bar as standard, designs capable of working at 48 bar are available on request.



The magnetic head pulley replaces the drive pulley at the end of conveyor belts. In view of the wide variety of conveyor belt types, the magnetic pulley are supplied made to measure and ready for installation. As the figure clearly show, the magnetic head roller extracts the iron particles from the material flow and carries them to the underside of the belt where they are removed and collected.

The version with permanent magnets are fitted with powerful and An-Isotropic Hard ferrite Magnets /high intensity Nd - Feb Rare Earth Magnets and operate without the need for power supplies. The magnet system is available in two types: with Longitudinal polar field distribution for use with low levels of iron contamination and thin material layers, and with lateral polar field distribution for greater material thickness and larger iron particles.

Finally as the belt leave the magnetic pulley, the magnetism Dissipates and the unwanted contamination falls from under the belt into a separate receptacle. This kind of magnetic pulley are use in various applications like cement plant, crushing and minerals industries, steel and glass plant etc.

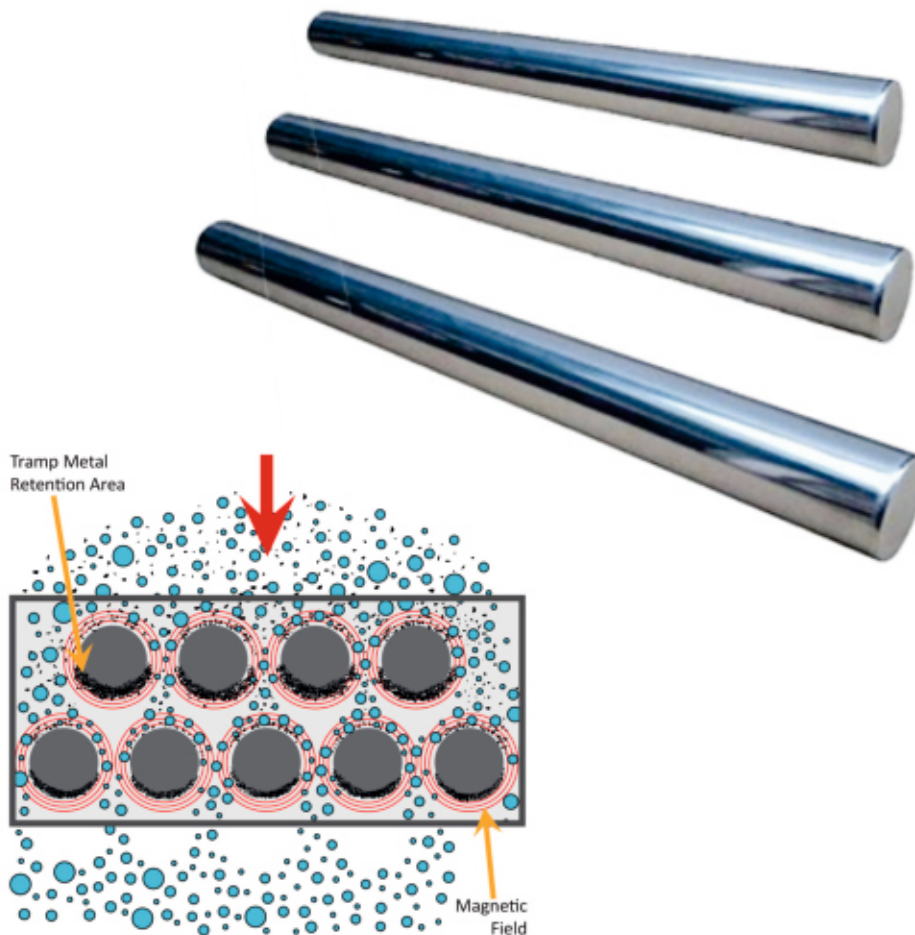


excel Magnetics has developed product which is a combination of sorting belt and a super high intensity magnetic roller which can easily remove highly iron practical paramagnetic and low paramagnetic with the magnetic effect and also have a facility to sort out the non-ferrous impurities from the product.

It is the most suitable for dehydrated food processing industry:

and various other vegetables

The magnetic sorting belt is also useful for separation of many other products which are having both kinds of impurities.



Rare Earth Rod Magnets are extremely efficient at removing fine iron contamination from free flowing products such as ceramics slurry sugar, grain, tea, flour, granulate and any other types of powder with low moisture content.

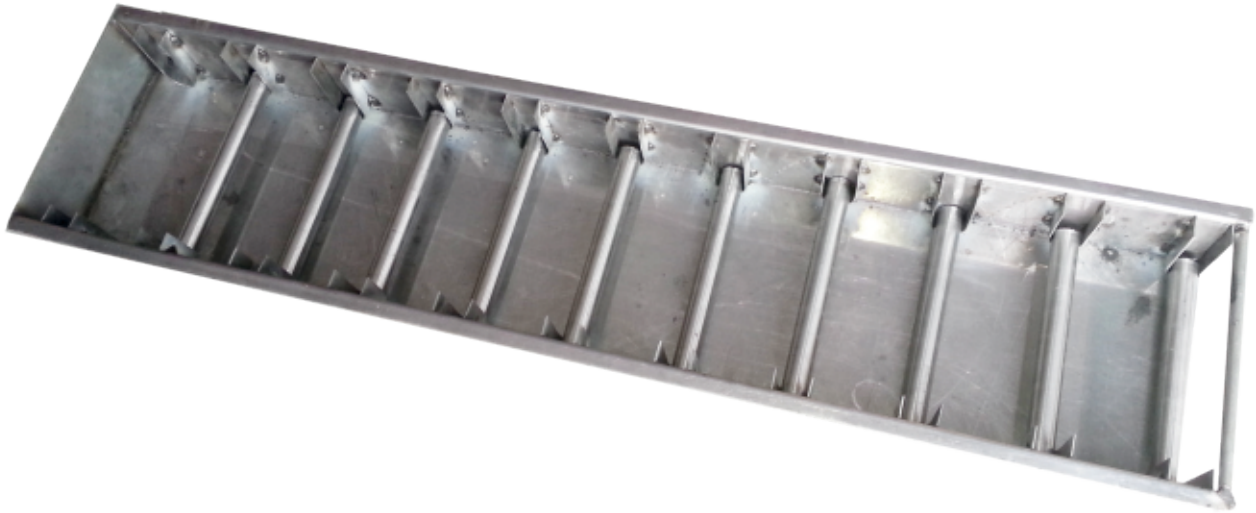
This item can be supplied with blank, tapped or studded ends for ease of installation. Rods are 25.4mm (1") in diameter, 32 mm diameter, 40 mm diameter and 50 mm diameter.

Rods are particularly useful for those engineers who wish to build their own separator units or have severe room restrictions and are not able to accommodate a conventional unit.

This product contact parts are manufactured using 304 & 316 grade stainless steel

Magnetic Rods are a simple low cost form of magnetic separation. Used in a Variety of industries from food, minerals, pharma, plastics processing to chemical and powder processing, According to the environment of your product, These magnetic Filter bars can be made with Nd-Fed Rare Earth, Alnico, Ceramic or magnet material. they can be easily installed into machinery or assembled according to the wishes of the customers.

High intensity rare earth magnets (up to 12,000 gauss). we manufacture them specifically to the length requested by the customer. The sealed stainless steel ends are drilled and tapped for fixing purposes



Excel magnetics, Permanent channel Magnet are used for the removal of iron from less strongly contaminated material from material like Rice, Flour, Glaze, Slip (ceramic material) Glass, Mineral powder, Slurry, Chemical, Liquid material, Food products for any kind material processing machine or machine outlet. The permanent magnetic channel is designed in various sizes & strength to meet the specific operation and plant condition. The channel magnet can ideally be used to remove tramp iron from material carried in chute. It is very useful for chemical slurry.

# Rotary Type Magnetic Separator



Our Rotary Grid Magnetic Separators are used in a variety of industries ranging from food and dairy to chemical, Ceramics, Clay, Minerals and pharmaceuticals. They are primarily designed to extract ferromagnetic contamination from powder and granulated products that are prone to caking and bridging by utilising a rotating grid of magnetic rods.

The housing and casings are constructed from 202/304/316 stainless steel. The unit is able to be fully disassembled quickly and efficiently, enabling personnel to undertake cleaning and maintenance with ease.

Each rod in the rotary separator houses high strength rare earth neodymium magnets, with the quantity of rods being able to be increased or reduced to meet client specifications. Our Excel magnets are available in three configurations:

- 1: Standard non dairy grade with a magnetic strength rating of 10000 - 10500 gauss per rod
- 2: Dairy grade with easy-clean functionality allowing the 202/304/316 stainless steel casing to be removed from the magnetic or custom flanges/connections.

Depending on the pipeline/chute that the separator is being installed in, they can be delivered with a variety of round, Square or custom flanges/connections.

Our rotary grid magnetic separators have a maximum operating temperature of 80°C though high temperature versions which can operate up to 80°C to 250°C are available on request.

1. Inlet/Outlet sizes and connection requirements
2. Product type, product consistency, flow rates and operating temperatures
3. Any other custom requirement information e.g. unit size restrictions, additional housing features, rod requirements etc.

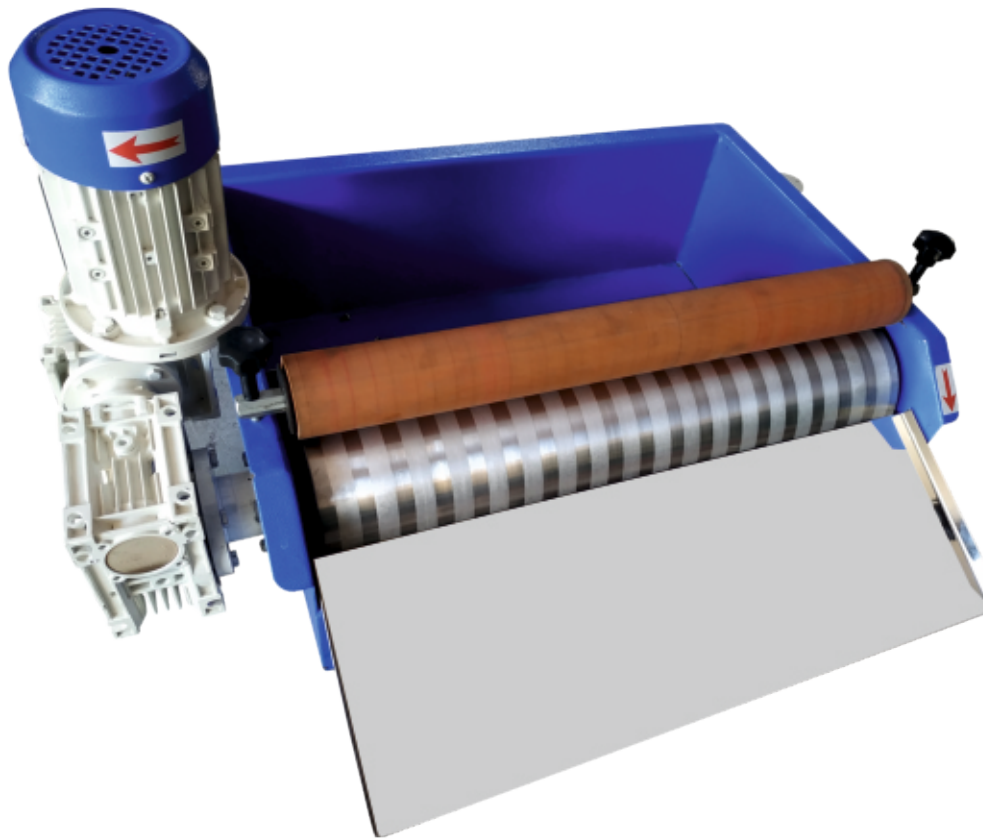


We are counted amid the reputed permanent Concentrator Magnetic Separator Suppliers. Permanent Magnetic Concentrator Separator is widely used for upgrading or concentrating material containing a very high percentage of magnetic or where magnetic/mechanical agitation is required for the separation of many difficult materials. Concentrator Magnetic Separator or permanent Magnetic Separator is ideal for upgrading of sponge iron/cast iron borings, steel/brass/aluminium turnings, chips and for mineral beneficiation applications such as the purification of dry ceramic and refractory materials, reclamation of abrasive grains, removal of iron contamination from chemical powder and grains and for many other such applications maximum separation with a minimum product loss. The Concentrator Magnetic Separators can be purchased in Various technical specification from us.

This special equipment has some versatile usage for concentration of Ferrite & Magnetic material, up gradation of sponge Iron purity, separating ferrous contamination from non - ferrous materials like Aluminum, Brass, Bronze, and Copper, coal etc. The ceramic & refractories industries also have the widest usage for purification. Chemical industries find its applications for removal of iron from chemical powder & grains

### Basic & Principle

The Machine works on the induced magnetism principle whereby the separations with segregation become possible. This ensures the recovery of product in terms of concentration and with high degree of purity. The sponge iron industries in particular where the losses of valuable magnetic material with the non - magnetic portion takes place can easily be avoided and thus the sponge iron purity with 99% can be achieved.



Excel magnetics We manufacture and supply superior quality coolant magnetic separators which are used to purify the coolant liquid of very fine ferrous particles. The separator is designed in such a way that it facilitates the removal of iron chips from the milling or grinding liquid. The separator can be used very easily as it is light and compact structure having strong magnetic power.

#### Features of Coolant Magnetic Separators

- A. Operation is automatic. You can remove all the contaminants easily.
- B. Can be applied on new or existing machines. Stainless steel housing.
- C. The coolant separator has self-adjusting scraper blade.
- D. Easy to install and operate.
- E. A neoprene rubber roller with covered bearings.
- F. A stainless steel blade with adjustments for efficient scrapping of the sludge.



The Wet Drum Magnetic Separator is used to remove very fine magnetisable components from low concentration, low-viscosity liquids. The wet separator is intended for use in the metal processing industry and for the treatment of preconcentrates extracted from the high gradient magnetic filter.

The liquid flows through a semicircular separating chamber beneath a stainless steel drum to which the magnetisable particles are attracted. The strong, high-gradient magnetic field is created by a cylinder consisting of permanent magnetic discs positioned within the drum. These special permanent magnets generate particularly high field gradients which are necessary for successful separation, as is the need with all magnetic separators. Wet drum magnets have high magnetic recovery and discharge. The feed slurries recover the magnetic. It is available in single or multiple drum applications. The drum is made from thick stainless steel for long service life. Wet drum separators are available in different configuration like single drum, double drum and multiple drum.

Wet Drum Magnetic Separator Standard Size diameters Size Diameters are 900 mm to 2000 mm and length is upto 3000 mm.

# Magnetic floor Sweeper



Our magnetic sweepers clear important traffic areas of dangerous scrap iron and reduce the possibility of costly flat tires or personal injury. We manufacture and distribute magnetic sweepers for size job. Push type models clear airless and walkways with 12", 18", 24", 36" sweeping widths, available with or without easy load release.

Our 36" and 72" trailer type sweepers tackle the really big jobs-roads, parking lots, runways and more. All models feature strong, permanent magnetism, quality construction and operate on paved or unpaved surfaces. We're your best source for magnetic sweepers.

#### **Application :**

widely used in workshop, parking lot, warehouse even at air port.

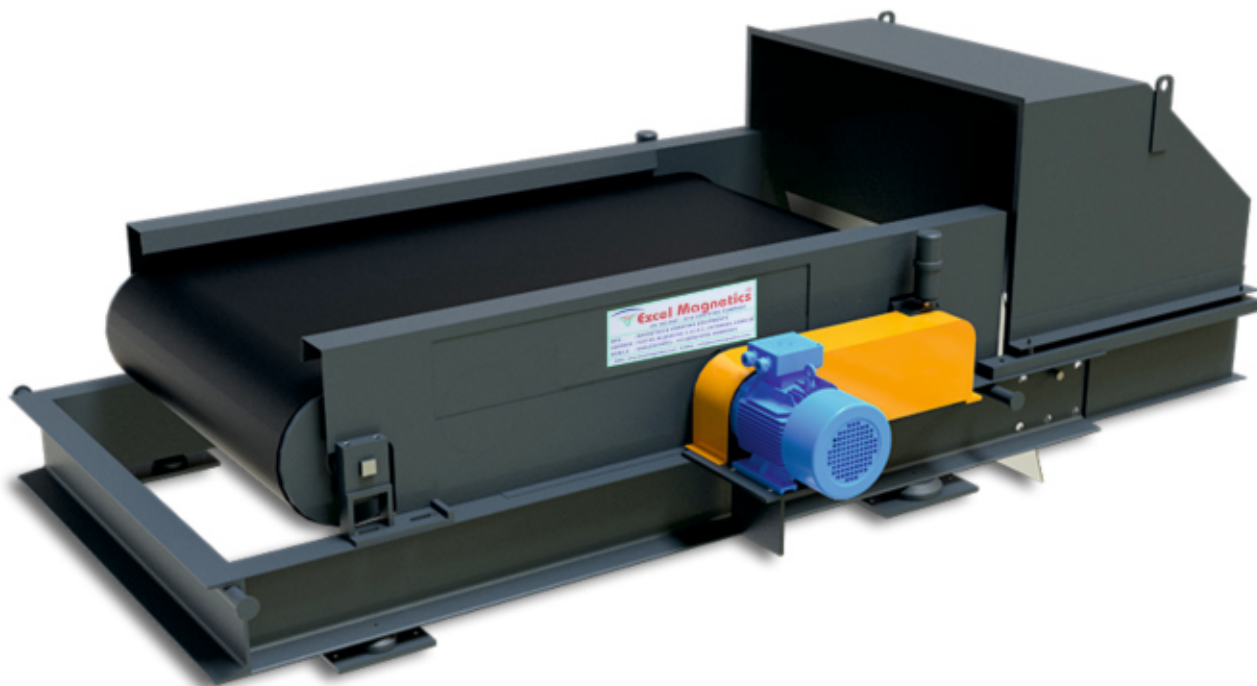


Excel compact Rare - earth Permanent life magnetic, turned on and OFF manually by lever provide smooth operation for hundreds of lifting and positioning application. These magnetic are ideally suited for in plant handling, loading/unloading of machine tools, in machines shop, engineering companies, steel plant, etc. No electricity needed, on batteries to replace don't threaten safety Guarantees continuous, Complete magnetic magnetic power, even after years of intensive use. Available with V face Pipes rounds and other hard to handle shapes. Available in 100 to 5000 kg rated lifting capacities with 33% safety factors that means magnetic are testing over 3.5 times the rated load.

Circular Electro Lifter Magnets are designed to eliminate scrap iron tramp metal from the raw material, Used in Recycling, quarrying and heavy industries.

Offered in fabricated cases, with coils and terminals sealed and protected to ensure watertight construction and low maintenance costs. Sizer range from 530 mm to 1525 mm in diameter to suit all crane sizer and models. Magnets are designed for cool operation and minimum reduction In lift capacity, to provide maximum lift performance throughout the working day.

Cases are constructed of high-permeability, low carbon steel for minimum magnetic leakage and maximum lifting efficiency. Bottom plates are heavy manganese steel. class H insulation is used throughout the magnets for extended life.



the eddy current separator (ECS) is an advanced metal sorting unit that is capable of separating non-ferrous materials such as aluminium and copper from dry recyclables. non-ferrous separators are very common in the fast growing market of beverage can sorting, where they can provide an accurate separation of aluminium cans from waste streams. depending on the application there are four rotor options available from master magnets for more information on each rotor specification, please click on the models tab above.

### **Operating Principles.**

An eddy current separator consists of a short belt conveyor that has its drive located at the return end and a high speed magnetic rotor system installed at the discharge end. the magnetic rotor which is positioned within a separately rotating non-metallic drum, revolves at around 3000 revolutions per minute during operation whilst the outer drum cover rotates at the speed of the eddy currents belt conveyor.

As the rotor spins at these high speeds, an electric current is induced into conducting metals. the induced electric current produces a magnetic field, which opposes the fields created by the rotor, repelling the conducting metals over a pre positioned splitter plate the remaining materials such as plastics, glass and other dry recyclables will simply free-fall over the rotor, separating them from the repelled metals.



Excel Auto Iron remover is used in the industries including ceramics, mineral processing, Chemicals industry and foods etc. for removing various iron impurities in slurry materials. It is made from high performance materials. It is designed as series connection, and the magnet bars sway in the groove, so there is no dead corners and gaps when iron removing. It can effectively remove iron impurities in the slurry which flow through the groove, and the slurry in the groove doesn't deposit when running.

Excel auto Iron remover is designed as two-sided scraping rings which can remove iron completely to prolong the life span of the scraping rings. It is configured with automatic slurry return system, so the system will open the slurry return valve automatically to empty the remaining slurry in the groove to prevent from slurry deposit to damage the machine after machine stopping. It has advantages in steady performance, high efficiency saving, convenient operation and easy maintenance. Iron removing and cleaning cycle are adjustable.



The metal detector System is designed to detect medium size and large pieces of metal. The system has a very effective means of adjusting sensitivity. When used with the EM 600, 800, 1000, 1200 amplifier, it will respond at the highest level of sensitivity to medium size parts like nails, washers, or pieces of flatware. When used with the MDV amplifier, it will respond only to larger pieces of metal like teeth from an excavator bucket, tools, or metal paneling. If not discovered, these items could destroy stone-crushing machines, vibratory equipment, or wood-chipping machines. When used in this manner, the metal detector is suitable for protecting machinery, whereby smaller parts will not interrupt operation of the equipment. It detects metal bulk during bulk material transport by means of contactless measurement.

The System EM consists of an amplifier and an inductive detector coil. The amplifier is equipped with an automatic adjustment regulator that ensures reliable operation even when disturbing metal parts are in close proximity to the detector coil. In addition, the adjustment regulator also ensures that only metal parts that are in motion will be detected.

One of the amplifier's tasks is to process the signals emitted by the metal detector coil and convert them into an electronic pulse. The detector coil generates an electromagnetic field. As soon as a piece of metal passes by the coil, it disturbs that field, resulting in a signal that can be evaluated.

The operator adjusts the metal detector's on the potentiometer. The coil's sensitivity is dependent on several factors, including: The coil's environment, the electromagnetic characteristics of the material to be detected, and the speed with which the material is transported.

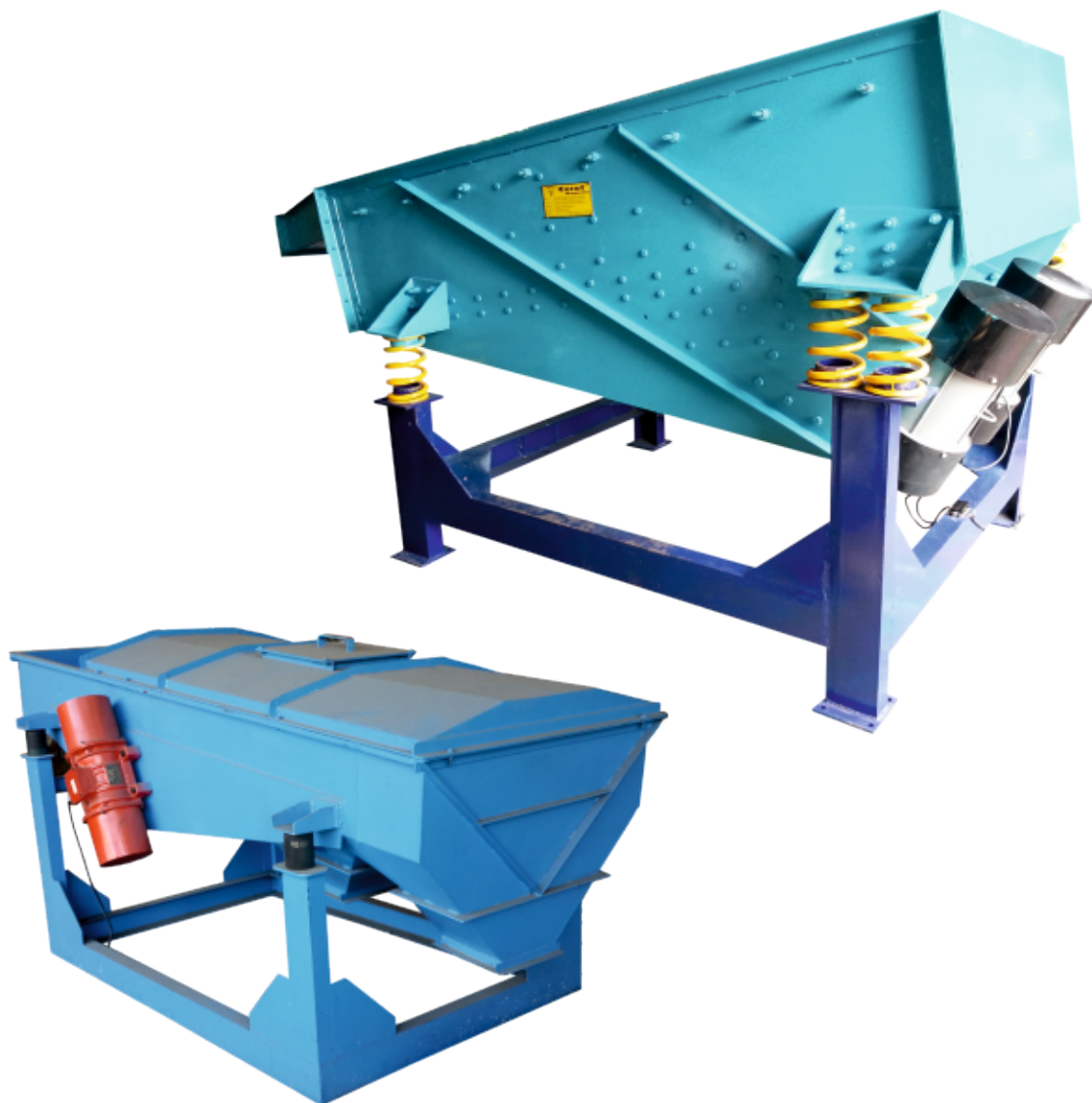


Excel magnetics Our organization has risen to prominence in offering Circular Electromagnetic Lifter to our clients. Circular Electromagnetic Lifter is available in various dimensions as well as designs. It is preferred on account of attributes such as robust construction, durability, high magnetic strength and many more. Offered range is appreciated for its design as well. The complete gamut is fully tested on different aspects of quality factor.

### Applications :

- Loading/unloading of steel scraps/pig irons/cast iron boring/broken steel from trucks
- Handles slabs, blooms and ingots
- Handle plates/angle/channels
- Used in smelt mixing operation
- Can be used with mobile cranes
- Direct feeding in the furnace
- Sweeping/cleaning of mill area

## Rectangular Vibrating Screen



Rectangular Vibrating Screens is available in single double and multi stage screen we made for heavy industrial supply for any vibrating screener, screen design will be a key factor in unit performance and maintenance. Screen cloth that is highly pre-tensioned across a frame and securely bonded provides the best screening surface with the longest life. Cleaning kits incorporated into the screen design provide dynamic anti-blinding action when needed. Additionally, designs that enable screen changes with tools minimize maintenance costs and downtime.

Vibrating screens play an important role in stone, ceramic, glass, plastic, minerals salt etc. industries manufacturing operations. Careful analysis of all factors before ordering will result in smooth field startups and optimal production performance.

Rectangular Vibrating Screen have very high frequency vibration which can screen up to 300 mesh screening material. Which are operated by unbalanced vibro motor & center essential shaft.



Circular Vibrating screen has come out with a most advance design of screens for grading of fine, we and difficult to screen materials. The screens works on the priniple of gyratory motion, The unique features of this type of sieve is its high capacity using minimum space and less power.

The screen has specially designs multi-directional system which prevents blinding of sieves. The material to be screened is fed from the top and collected simultaneously from outlets of diffrent decks. These screens can handle wide range of materials such as heavy, light, gry, wet coares or fine. The company manufactures various size to indiviual requirement in M S and S S construction.

Vibratory motion is the most effective method for screening. It causes 100% rotary motion and causes disperison stirring & stratification of material to be sifted. Feed material constantly flowe in Horizontal motion along a loop pattern on vibro screen surface. "EXCEL" Vibro screen probvides optimum screening & assyres maxium feed-rate & efficiency

Available Diameter of Vibrating Screen is 600 mm, 900 mm, 1200 mm, 1800 mm, and 2400 mm and no of decks are upto 6 stage.

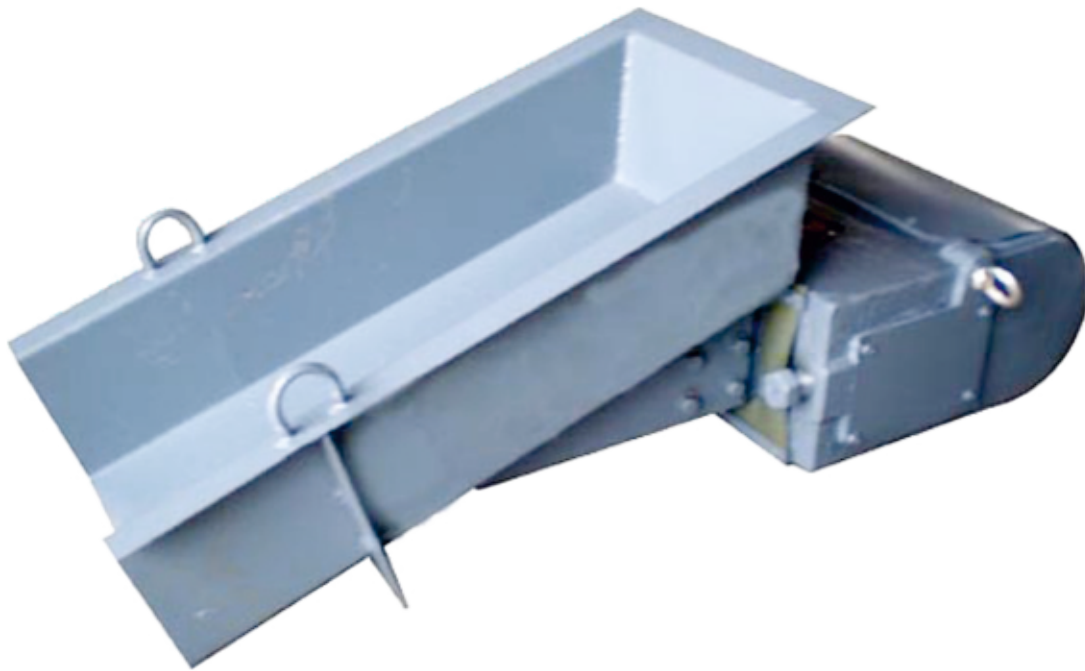


Mechanical Vibrating Feeder with inertial drive are designed for transport and feeding of loose, granular materials in technological and storage transport. installed under of containers Operative handling of the feeder is limited to setting the required capacity , wich is performed by changing the location of unbalanced masses at the ends of electro shafts, periodical inspection of the condition of connections and maintenance of drives in accordance with the instruction manual.

Mechanical Feeder with unbalance motor drives is economical conveying means for all bulk materials. Compared with other conveying means vibratory feeders hace low energy consumption. The vibration is achieved by the eccentric movement of the our of undalamced weights mounted on each side of motor vibrator dibrator driver arranged for counter-rotation, provide linear vibratory action, Which conveys the product across the vibrating surface. The internal part of the feeder's trogh can be covered e.g. plastic, rubber or wear lining. An advantae of the used inertial drives is the ability of stepless adjustment of the capacity during Standstill. It is possible to somoothly adjust the transport rate during operation in a spwcified scope with the use of a rate converater. Techical Parameters are presented in the attached table. upon request of the Cusotmer, all elements in contact with the fed material can be perormed from stainless steel or other materials.

#### **Advantages :**

Works well during continuous operation-act as seling elements of the container - dustproof manufacturing process with extracting pipes

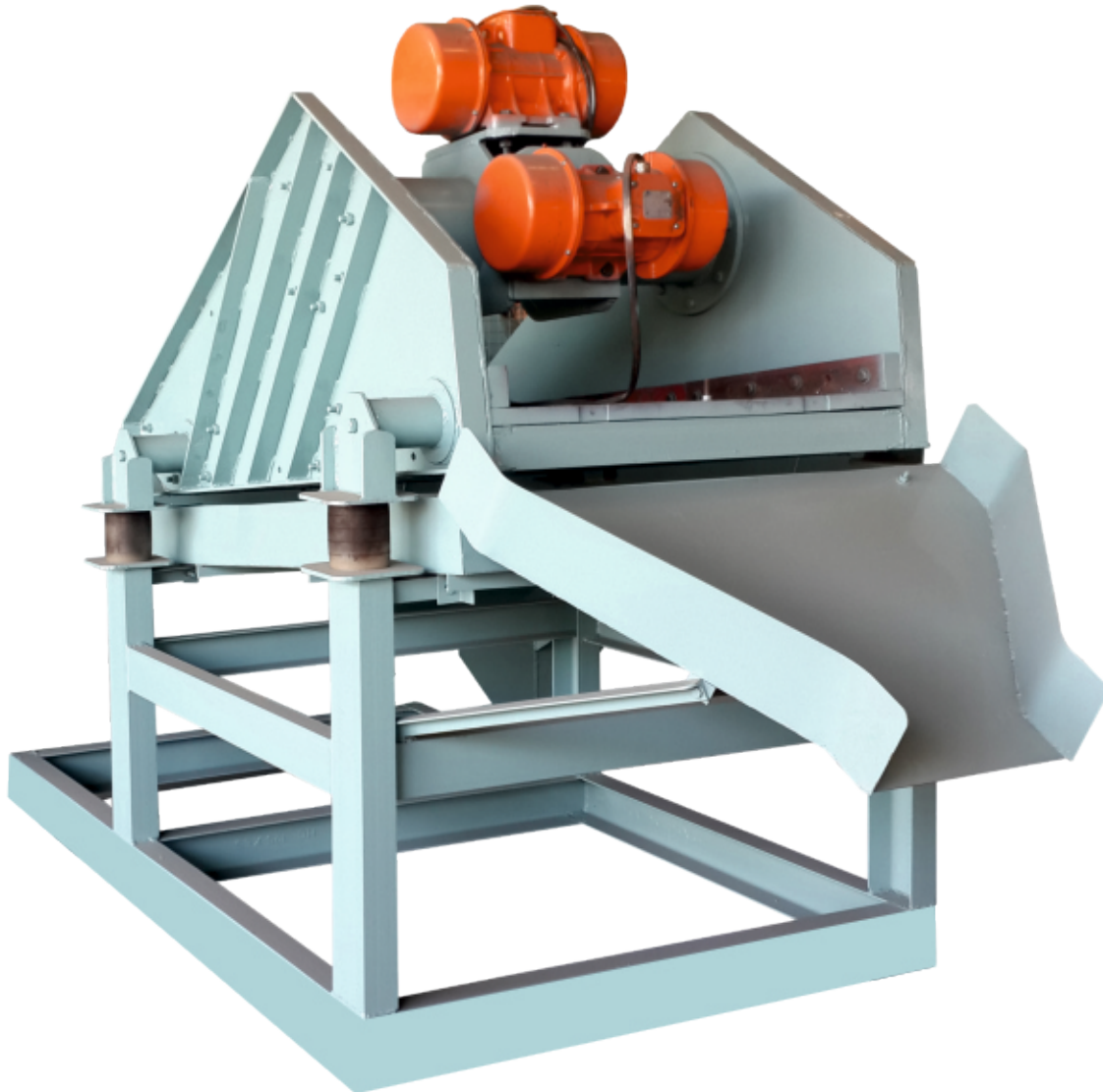


With almost 1 decade of market expertise, we are manufacturing and supplying Electromagnetic Vibro Feeder are widely used for controlling flow of Materials. The offeres feesre are manufactures by making use of the best quality components and cutting edge techniques in accordance with the international industry standards under the observation of our experts. Additionally, our patrons can purchase these Electromagnetic Vibratory Feeders from us the most affordable rated within the promised time span.

Heavy-duty electromechanical vibratory feeder are used to increase the bulk handling productivity with controlled high feed rates which further results in improvement of cost-per-ton handling efficiency. These feeders includes electeomagnetic feestromechanical vibratory feeders, inclined vibro geizzly feeder, vibratory furnace charger. These are ruggedly constructed to minimize the maintenance and improve the production efficient. All our feeders need separate controllers and have dependable, flexible solid-state control. The feed rates are adjustable and the response is prompt.

EMVF feedre are offered in various models with different capacities ranging from 10 to 500 tone per hour, based on dry sand weighing 100 pounds per cubic foot.

All our feeders need separate controllers and have dependable, flexible solid-state control. The feed rates are adiustable and the response is prompt. Control devised can also be provible for integration in systems in systems using from automatic sensing devices in instruments. Special control arrangements can also be provided to select and sequence a group of feeders. It also includes variable frequency controls RF and MF feeders which provide linear feed rate and are offerd for either local or remote control operation. All the control components are encosed in a sturdy wall-mounted enclosure and are available in general purpose, dust-tight, watertight or explosion-proof construction.



Excel magnetics Dewatering vibrating screen with flange-type exciter, driven by two motors for reverse self-synchronous rotation, so that the screen in a straight line to do reciprocating motion in order to achieve the purpose of grading dewatering.

Screen frame with high-strength bolted connection, the screen surface by the arc section and the straight-line section composition, durable structure.

According to the mechanical structure and process parameters, the vibrator is arranged above the centre of gravity of the screen box. This arrangement makes the trajectory of the screen machine elliptical at the feeding end, round in the middle, discharge side is still elliptical, that is elliptical-circular-elliptical.



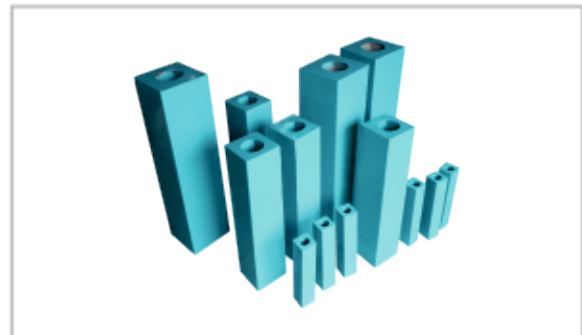
Vibrating Moter



Vibrating Screen



Open Tyte Roll Separator



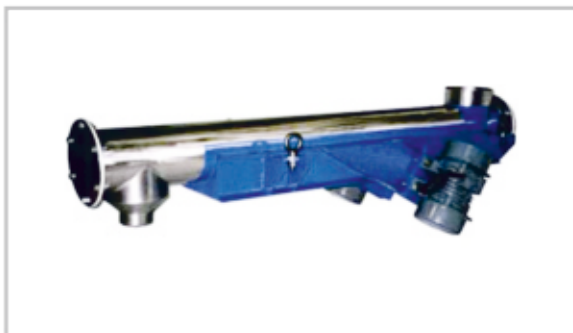
Water Magnet



Rectangular Vibratory Screens



Two Stap Rotary Magnet



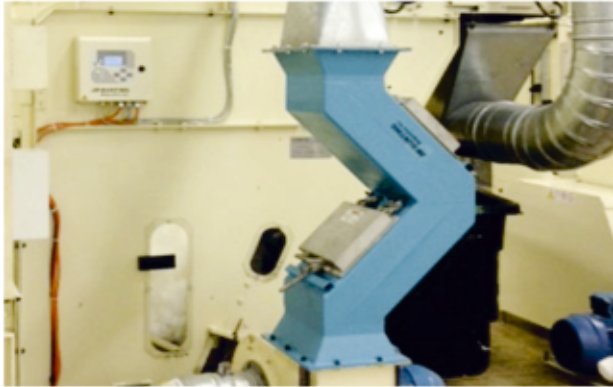
Tube Fedder



Vibratory Tabel

## Our Other Products





## Our Valued Clients



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	 knowledge action care	 Anil Dhirubhai Ambani Group	
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 Wm Plast Ltd.	 NCL GROUP		
 HINDALCO	 GEARING THE FUTURE	 NAGARJUNA CEMENT	 RUCHIRA PAPERS
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 HNG GLASS THE SMARTER WAY!	 IMERYS Ceramics	 MOTHER DAIRY	 20 MICRONS LIMITED
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# Excel Magnetics®

*Magnetic & Vibrating Equipments*



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